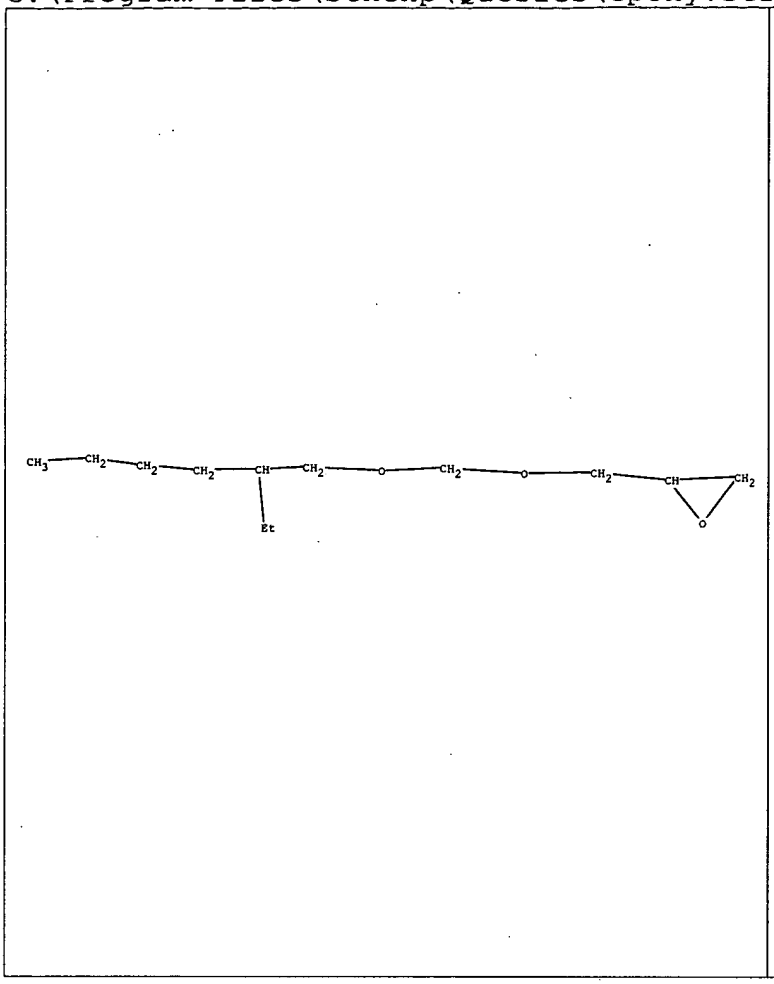
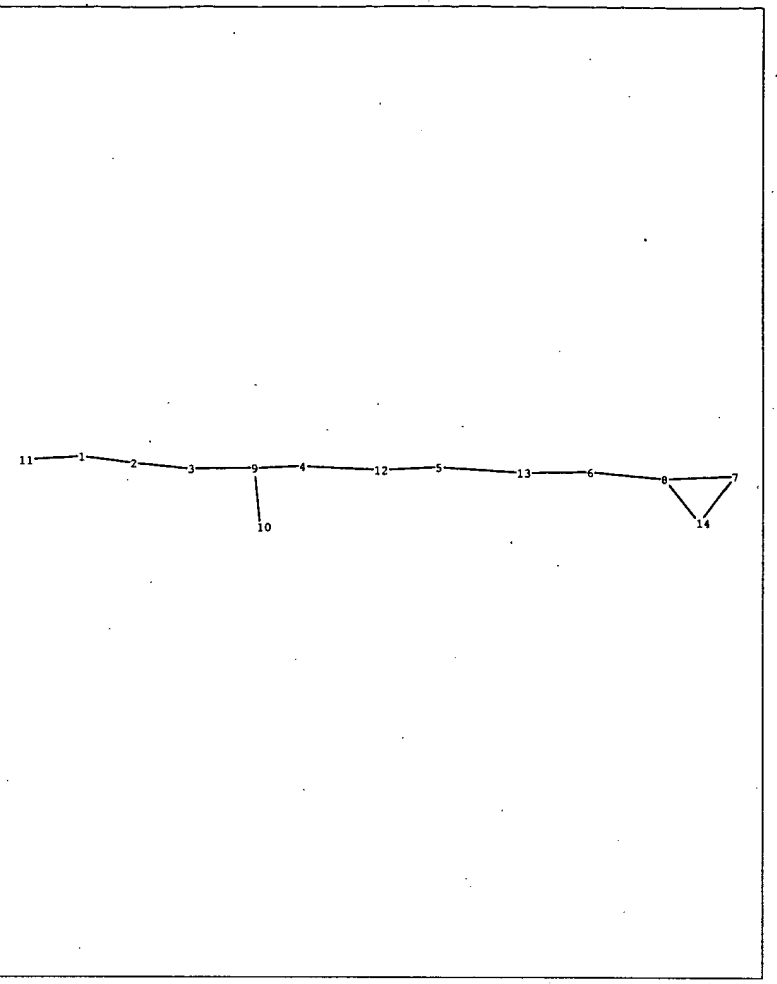
C:\Program Files\Stnexp\Queries\epoxy.str

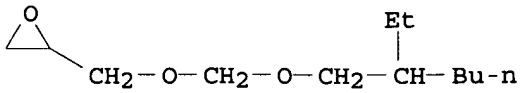




chain nodes :
1 2 3 4 5 6 9 10 11 12 13
ring nodes :
7 8 14
chain bonds :
1-2 1-11 2-3 3-9 4-12 4-9 5-13 5-12 6-8 6-13 9-10
ring bonds :
7-14 7-8 8-14
exact/norm bonds :
7-14 7-8 8-14
exact bonds :
1-2 1-11 2-3 3-9 4-12 4-9 5-13 5-12 6-8 6-13 9-10

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom
9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:Atom

RN 317834-64-3 REGISTRY
ED Entered STN: 29 Jan 2001
CN Oxirane, [[[(2-ethylhexyl)oxy]methoxy]methyl]- (9CI) (CA INDEX NAME)
MF C12 H24 O3
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

AN 2001:31593 CAPLUS
DN 134:87667
ED Entered STN: 12 Jan 2001
TI Composition of anticorrosive paint comprising epoxysilane
IN Perala, Mika; Tikkanen, Seppo
PA Nor-Maali Oy, Finland
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C09D183-04
ICS C08L083-04; C09D183-04; C09D163-00; C08L083-04; C08L063-00
CC 42-9 (Coatings, Inks, and Related Products)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002506	A1	20010111	WO 2000-FI613	20000704
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FI 105406	B1	20000815	FI 1999-1535	19990705
	EP 1210394	A1	20020605	EP 2000-944085	20000704
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	RU 2246517	C2	20050220	RU 2001-135740	20000704
PRAI	FI 1999-1535	A	19990705		
	WO 2000-FI613	W	20000704		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001002506	ICM	C09D183-04
	ICS	C08L083-04; C09D183-04; C09D163-00; C08L083-04; C08L063-00
	IPCI	C09D0183-04 [ICM,7]; C08L0083-04 [ICS,7]; C08L0083-00 [ICS,7,C*]; C09D0183-04 [ICS,7]; C09D0163-00 [ICS,7]; C08L0063-00 [ICS,7]
	IPCR	C08G0059-00 [I,C*]; C08G0059-30 [I,A]; C08G0059-32 [I,A]; C09D0163-00 [I,A]; C09D0163-00 [I,C*]; C09D0183-04 [I,A]; C09D0183-04 [I,C*]
	ECLA	C08G059/30F; C08G059/32F; C09D163/00+B4S; C09D183/04+B4+C8; C09D183/04+B4+C
FI 105406	IPCI	C09D0163-00 [ICM,7]; C09D0183-06 [ICS,7]
	IPCR	C08G0059-00 [I,C*]; C08G0059-30 [I,A]; C08G0059-32 [I,A]; C09D0163-00 [I,A]; C09D0163-00 [I,C*]; C09D0183-04 [I,A]; C09D0183-04 [I,C*]
EP 1210394	IPCI	C09D0183-04 [ICM,6]; C08L0083-04 [ICS,6]; C09D0183-04 [ICI,6]; C09D0163-00 [ICI,6]; C08L0083-04 [ICI,6]; C08L0083-00 [ICI,6,C*]; C08L0063-00 [ICI,6]
	IPCR	C08G0059-00 [I,C*]; C08G0059-30 [I,A]; C08G0059-32 [I,A]; C09D0163-00 [I,A]; C09D0163-00 [I,C*]; C09D0183-04 [I,A]; C09D0183-04 [I,C*]
RU 2246517	IPCI	C09D0183-06 [ICM,7]; C08L0083-06 [ICS,7]; C08L0083-00 [ICS,7,C*]; C09D0163-00 [ICS,7]
	IPCR	C08G0059-00 [I,C*]; C08G0059-30 [I,A]; C08G0059-32 [I,A]; C09D0163-00 [I,C*]; C09D0163-00 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]
	ECLA	C08G059/30F; C08G059/32F; C09D163/00+B4S; C09D183/04+B4+C; C09D183/04+B4+C8

AB The invention relates to a paint composition comprising a resin constituent which includes (i) a non-aromatic epoxy resin, (ii) a polysiloxane and (iii) an epoxysilane. The paint composition of the invention has an anti-corrosive effect. Thus, an epoxy polysiloxane paint prepared from a blend comprising methoxy-functional polysiloxane (Dow Corning 3074) 306, polyamide wax thickener (Crayvallac SuperTM) 21.3, titanium dioxide pigment 156, talcum 30, wollastonite 54.5, feldspar filler (Siokal FF 30tm) 49, glycidoxypropyltrimethoxysilane (Silquest A-187tm) 50.6, and pentaerythritol tetraglycidylether (Polypox R 16tm) 268.5 g, was formulated with a hardener comprising polyamide (Versamid 140tm) 173, aliphatic epoxy resin (Dow DER 732tm) 33.9, γ-aminopropyltriethoxysilane (Silquest A-1100tm) 404, and tin catalyst (DBTL) 16.2 g, and the paint was applied on a substrate and exposed to a neutral salt fog test (SFS 3707), and had film thickness 120 μm, tensile value changing from 14.3 MPa to 7.3 MPa, compared to 200 μm, 12.3 MPa, and 3.5 MPa, resp., for a control film using bisphenol A epoxy resin and without epoxy silane.

ST paint anticorrosive aliph epoxy resin polysiloxane epoxysilane compn

IT Silsesquioxanes
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(Ph, di-Me polysiloxane-, methoxy-terminated, Dow Corning 3074; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT Epoxy resins, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(aliphatic; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT Paints
(anticorrosive; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT Polysiloxanes, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(di-Me, Ph silsesquioxane-, methoxy-terminated, Dow Corning 3074; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT Epoxides
RL: MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(silyl, Silquest A-186, Silquest A-187; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT 3388-04-3, β-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane
RL: MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(Silquest A-186, silyl epoxide; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT 3126-63-4, Pentaerythritol tetraglycidyl ether 13236-02-7, Glycerol triglycidyl ether 17557-23-2, Neopentyl glycol diglycidyl ether 30401-87-7, DER 732 317834-64-3
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(aliphatic epoxy resin; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT 2530-83-8, Silquest A-187
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(silyl epoxide; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Akzo Nobel N V; WO 0031197 A1 2000 CAPLUS
(2) Ameron Inc; WO 9616109 A1 1996 CAPLUS